# yumeng ma

HUMAN-Al Interaction · Accessibility · Visual & social Computing

yumengma@uw.edu | ★ yumengma.com | □ momentine

| □ momentine

Education \_\_\_\_\_

# **University of Washington**

Seattle, WA

INCOMING PHD IN COMPUTER SCIENCE AND ENGINEERING

Brown University Providence, RI

Sc.M in Computer Science (Human-Computer Interaction)

2022 - 2024

GPA: 4.0 / 4.0

Coursework: UI/UX, Designing Humanity Centered Technology, HCI Seminar, Collaborative Robotics, Computer Graphics

Arizona State UniversityTempe, AZB.S. IN COMPUTER SCIENCE AND PSYCHOLOGY2019 - 2022

Barrett Honors College

GPA: 4.0 / 4.0 Summa Cum Laude

Thesis: "Assessing Exhibit Interaction through Bridging the Connections Between Biometrics and Traditional Tools"

Publications

#### **CONFERENCE PROCEEDINGS**

Zainab Iftikhar, **Yumeng Ma**, and Jeff Huang. 2023. "Together but not together": Evaluating Typing Indicators for Interaction-Rich Communication. In Proceedings of the 2023 Conference on Human Factors in Computing Systems (CHI '23). Paper

Ian Gonsher, **Yumeng Ma**, Ivan Pineda-Dominguez, Matthew Lee, and Yuxin. 2023. The Mixed Reality Passthrough Window: Rethinking the Laptop Videoconferencing Experience. Human Interaction and Emerging Technologies (IHIET-AI 2023): Artificial Intelligence and Future Applications. *Paper* 

## **SHORT PAPERS & EXTENDED ABSTRACTS**

**Yumeng Ma\*** and Jiahao Ren\*. 2023. ProactiveAgent: Personalized Context-Aware Reminder System. In The 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23 Adjunct). *Paper* 

Experience \_\_\_\_\_

## **Brown Department of Neuroscience**

Providence, RI

**COMPUTER VISION RESEARCH ASSISTANT** 

2023 - 2024

• Built a visual prosthesis system for blind and low vision users to locate everyday objects and read surrounding text.

Brown + NASA Providence, RI

#### MOBILE DEVELOPER RESEARCH ASSISTANT

2023 - 2024

• Developed and led the final integration of a sound and haptic enabled visualization cross-platform mobile app to encourage blind and low vision individuals to explore and learn about space.

**Civilience** Remote

## PRODUCT MANAGER & UI/UX DESIGNER INTERN | LIAISON BETWEEN FRONTEND AND UIUX

2023

• Led the UI/UX team to design a web-based app with interactive health data visualizations and create reusable components for the design system to maintain consistency throughout the product.

<sup>\*</sup> equal contribution

## **Brown Department of Engineering**

Providence, RI

**DESIGN RESEARCH ASSISTANT** 

2022 - 2023

 Introduced a new paradigm for the integration of AR into laptop and desktop displays to enable local users to interact more easily and seamlessly with remote users during videoconferencing sessions.

**UCLA HCI Lab** Los Angeles, CA

**HCI RESEARCH INTERN** 

2023

• Led the development of a proactive reminder system that takes in user context, history, and spoken interactions by leveraging LLMs and personal agents.

**Brown HCI Lab** Providence, RI

#### DISTRIBUTED RESEARCH EXPERIENCES FOR UNDERGRADUATES INTERN

2022

 Designed novel typing indicators and found that they enhance user co-presence in written communication through in depth surveys and interviews.

**ASU SoLET Lab** Tempe, AZ

#### **PSYCHOLOGY RESEARCH ASSISTANT**

2022

 Conducted testing and evaluation of tutoring systems to optimize learning and educational practices for underrepresented groups.

**NASA Psyche Mission** Tempe, AZ

**COLLABORATOR** 2021-2022

• Developed a web app that allows users to interact with the Psyche Spacecraft model and led user studies with biometric data analysis that showed the app increased public engagement.

# Awards, Fellowships, & Grants\_

- NSF Graduate Research Fellowship, NSF 2024
- Paul G. Allen School Diamond Fellowship, University of Washington 2024
- 2023 Tapia Celebration of Diversity in Computing Conference Scholarship, Brown University
- Microsoft DisAbility Scholarship, Microsoft 2019 - 2023
  - 2022 Google CS Research Mentorship Program Fellowship, Google
  - Virtual Grace Hopper Celebration Scholarship, AccessComputing 2022

Teaching.

**Information Assurance**, TA for Adam Doupe and Tiffany Bao, ASU

## Extracurricular & Work Activities \_\_\_

2021 - Present Member, AccessComputing

2022 - 2024 Master's Representative, Brown University CS Diversity Committee Providence, RI 2023 Student Volunteer, UIST San Francisco, CA 2020 - 2021 Tempe, AZ

Microsoft Support / Xbox Advocate Contract, Microsoft

Skills\_

**Programming** Python, C/C++, C#, Java, Unix/Linux, ROS

Web/Mobile HTML, CSS, Javascript, Typescript, React, React Native, Vue, Electorn, APIs, Git

**Game Dev** Unity, OpenGL

> Data Jupyter Notebook, MySQL, MATLAB, JSON

**Design** UI/UX, Adobe Creative Suite, Figma, Wireframing, Fusion360, Blender